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WHAT IS CLAIMED IS:

(MPLS) network, the method comprising the steps of controlling a traffic stream to flow in a reverse direction in a point where a node or link failure occurs by using a backup Label Switched Path (LSP) comprising an Explicitly Routed (ER) LSP having a reverse tree of a protected multi point to point LSP and an ingress LSR through an egress LSR.

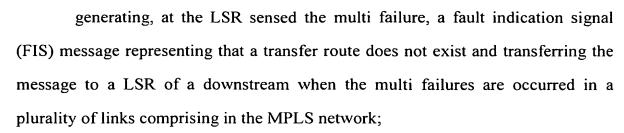
2. A method for high speed rerouting in a multi protocol label switching (MPLS) network, comprising the steps of:

setting a backup Label Switched Path (LSP) comprising a point to multi point reverse anycast tree reaching an ingress Label Switching Router (LSR) with an egress LSR of a multi point to point LSP performing as a root; and

transferring, at a LSR sensed a failure, a traffic stream through the reverse anycast tree by loop-backing the traffic stream in a reverse direction, when the failure occurs in one link in the MPLS network.

- 3. The method of claim 2, the traffic stream transferring step comprising the step of transferring a loop-backed packet based on a priority predetermined in each link, when the loop-backed packet reaches to a merging LSR of an upstream having a plurality of links.
- 4. The method of claim 2, the traffic stream transferring step comprising the steps of:

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transferring, at the LSR of the downstream, the loop-backed traffic to the reverse anycast tree not suffering the multi failures based on the FIS message.

